



Las Vegas Fire & Rescue Fire Prevention Division



Effective Date: July 1 2014

CLV Ordinance # 6325

The items listed are basic information only. Items are subject to change. Additional requirements may apply.

Fire Life Safety Systems Testing Guidelines

General overview:

This guideline was developed to assist the project general contractor to ensure that the provisions of the fire, building and other associated codes and standards along with scheduled project completion is met.

Scope:

The following systems shall be tested in their entirety by Las Vegas Fire & Rescue Fire Prevention division, prior to all life safety systems testing. Such systems are as follows but are not limited to:

- Automatic Fire Sprinkler Systems
- Fire pump systems
- Other automatic fire suppression systems (Pre-action, Clean Agent, etc)
- On-site water supplies
- Off site water supplies
- Fire alarm and detection systems
- Emergency automatic voice/alarm paging systems
- Fire Department Emergency Radio Communication systems
- Elevator recall operations
- Fire Command Center
- Back-up generator
- Smoke Control systems

*All systems shall be tested under normal and backup emergency generator.



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Fire Life Safety Coordinator:

As multi trade, multi discipline coordination is paramount; it is advised that an independent 3rd party organization or individual qualified in the functions of all of the associated systems is retained to assist with such coordination.

General scope / responsibilities

- Coordinate all AHJ testing
- Coordinate any re-submittal activity
- Coordinate Request for Information (RFI) for Fire Protection contractors
- Confirm proper documentation for pre-test allowing for LVFR testing

Fire Protection Engineering Firm

Prepare Fire Life Safety Narrative report identifying fire protection features for specific property. Including but not limited to:

- General description
- Design Team members
- Applicable codes
- Fire Protection Life Safety design approach
 - I. General Fire restrictive Construction aspects
 - II. Occupancy Classification
 - III. Construction type(s)
 - IV. Square footage by location
 - V. Building height
 - VI. Numbers of floor above and below grade
 - VII. Emergency response routes
 - VIII. Service utility entrance locations
 - IX. Fire Separations
 - X. Interior wall, ceiling and floor finishes
 - XI. Decorative structures within building
 - XII. Egress
 - XIII. Emergency Signage
 - XIV. Fire Detection and alarm systems
 - XV. Smoke management / control
 - XVI. Emergency Communication Systems
 - XVII. Fire Command Center
 - XVIII. Emergency and standby power
 - XIX. Elevators

- Special Inspections organization or individual



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- Any Appendices related to Fire alarm/mechanical smoke management functional matrix
- Any Appendices related to small scale drawings and smoke control/management zone description
- Coordinate all submittals to LVFR Fire Engineering
- Coordinate associated sub-contractors (air-balance, etc) as necessary
- Coordinate and schedule "all system" testing and plan

NOTE: "All system" testing schedule shall be communicated no less than 72 hours before the requested date. Any subsequent required testing determined at the time of the all system Test will be coordinated at that time

- Test plan shall include any process, protocols, and procedures. Such items shall be in accordance with the adopted applicable standard or code.
- The all systems test shall demonstrate the entire buildings fire life safety functionality as determined by fire life safety design approach.
- Prepare and submit final report of findings to LVFR Fire Engineering for approval

City of Las Vegas Responsibilities:

- Assign appropriate staff to witness the fire protection systems testing.
- Assign appropriate staff to take part in the "All systems" test
- Provide appropriate documentation to allow approval of a "Certificate of Occupancy"
- Review all submittals, including reports, fire protection engineers, third party, etc.
- Provide appropriate timely feedback on non typical issues that may arise during the process
- Provide written appropriate notice for life safety systems post occupancy testing

Las Vegas Fire & Rescue
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